

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Omid Oliaei

Serial No.: Filed Concurrently

Filed: February 27, 2004

For: METHOD AND APPARATUS FOR  
COMPLEX CASCADE SIGMA-DELTA  
MODULATION AND SINGLE-  
SIDEBAND ANALOG-TO-DIGITAL  
CONVERSION

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: MOTB:036US

EXPRESS MAIL MAILING LABEL	
NUMBER	EV 323284140 US
DATE OF DEPOSIT	February 27, 2004

**INFORMATION DISCLOSURE STATEMENT**

**MS PATENT APPLICATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

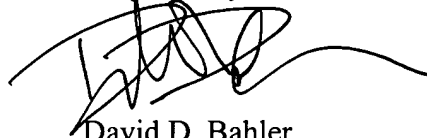
In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/MOTB:036US.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'David D. Bahler', with a long horizontal flourish extending to the right.

David D. Bahler  
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Date: February 27, 2004

Form PTO-1449 (modified)		Atty. Docket No. MOTB:036US	Serial No. Filed Concurrently
List of Patents and Publications for Applicant's  INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)		Applicant Omid Oliaei	
		Filing Date: February 27, 2004	Group: Unknown
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1</i>	

### U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	6,225,928	5/01/01	Green	341	143	3/10/99
	A2	6,329,939	12/11/01	Swaminathan <i>et al.</i>	341	143	2/18/99

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Jantzi <i>et al.</i> , "Quadrature bandpass $\Delta\Sigma$ modulation for digital radio," <i>IEEE Journal of Solid-State Circuits</i> , 32(12):1935-1950, 1997.
	C2	Salo, "Bandpass delta-sigma modulators for radio receivers," Helsinki University of Technology, <i>Electronic Circuit Design Laboratory Report 36</i> , Espoo 2003.

25390068.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.